	Application No.	Applicant(s)		
Notice of All wability	10/053,704	HATTORI ET AL.	HATTORI ET AL.	
	Examin r	Art Unit		
	Nguyen N Hanh	2834	And	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS her with (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate communication is search MPEP 1308.	n this application. If not include unication will be mailed in due o	ed course. THIS	
This communication is responsive to <u>Request for considera</u> —	ation filed on 12/4/03.			
2. The allowed claim(s) is/are <u>1-11</u> .				
3. \boxtimes The drawings filed on <u>04 December 2003</u> are accepted by	the Examiner.			
 4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application	on No	ion from th	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file ENT of this application.	a reply complying with the req	uirements	
5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXA es reason(s) why the oath or	AMINER'S AMENDMENT or No declaration is deficient.	OTICE OF	
 CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the 	on's Patent Drawing Reviev Amendment / Comment or 84(c)) should be written on the	in the Office action of	back) of	
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I	sit of BIOLOGICAL MATE	ERIAL must be submitted. N	lote the	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	6. ☐ Interview St Paper No./ 8), 7. ☐ Examiner's	formal Patent Application (PTC ummary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allow	·	

DETAILED ACTION

Remarks

1. In view of Applicant's argument, the Examiner withdraws the rejection under 35 USC 103(a) to claim 10. Therefore, all the claims are in a condition for allowance.

Allowable Subject Matter

- 2. Claims 1-11 are allowed.
- 3. The following is a statement of reasons for the indication of allowable subject matter:

Regarding claims 1,4 and 6: the prior art of record does not show a permanent magnet type reluctance electric motor wherein a novel relationship between a selected number of variables and how the relationship of the selected variables has a dependency on torque (claims 1, 4 and 6).

Regarding claim 10, the most relevant prior found are US patent No. 5,642,013 patented to Wavre and Sakai et al. (US 6,274,960). Sakai et al. disclose a reluctance type electric machine with embedded permanent magnet and Wavre discloses a permanent magnet motor wherein the reluctance force of the motor is in dependence on the ratio of slot width to tooth pitch and the optimum working range for the reluctance force. However, the present invention and Sakai et al. directed to different kind of electric machine (a reluctance type electric machine) and the optimum range disclosed by the present invention as recited in claim 10 aimed at increase reluctance force or the propelling force to rotate the motor (as can be seen clearly in Fig. 11 of the present invention) while the optimum range disclosed by Wavre aimed at reducing reluctance

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force that disturbs the motor operation (as can be seen clearly in area 45 of Fig. 7 of Wavre; in Col. 2, lines 12-30 and Col. 4, lines 25-40). Therefore, it is not obvious to combine Wavre to Sakai et al. and the present invention as recited in claim 10 is distinguished over prior art.

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Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hanh N Nguyen whose telephone number is (571) 272-2031. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner 's supervisor, Darren Schuberge, can be reached on (571) 272-2044. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

HNN

May 27, 2004

DANG LE PRIMARY EXAMINER

Kang Lu